AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application. Applicant has canceled Claims 1, 3-11, 15-17, 19-24, 30 and 31 without prejudice and amended Claims 2, 12, 18 and 25 in the following listing, in which inserted text is underlined and deleted text is stricken through:

- (Canceled)
- (Currently amended) The apparatus of claim 1, further comprising An apparatus for processing and transmitting a signal, the apparatus comprising:

a splitter configured to split an input signal into two or more signals comprising a first signal and a second signal;

an interleaver configured to interleave the first signal to provide a first interleaved signal;

a first multiplier configured to multiply the first interleaved signal with a first code to provide a first coded signal;

a second multiplier configured to multiply the second signal with a second code to provide a second coded signal;

a transmission unit configured to transmit the first coded signal and the second coded signal; and

a delay configured to delay the second coded signal to provide a time-delayed second coded signal, wherein the transmission unit is configured to transmit the timedelayed second coded signal in lieu of the second coded signal.

- (Canceled)
- 4. (Canceled)
- 5. (Canceled)
- 6. (Canceled)
- (Canceled)
- (Canceled)
- (Canceled)
- 10. (Canceled)
- (Canceled)

12. (Currently amended) The apparatus of claim 1, An apparatus for processing and transmitting a signal, the apparatus comprising:

a splitter configured to split an input signal into two or more signals comprising a first signal and a second signal;

an interleaver configured to interleave the first signal to provide a first interleaved signal;

a first multiplier configured to multiply the first interleaved signal with a first code to provide a first coded signal:

a second multiplier configured to multiply the second signal with a second code to provide a second coded signal; and

a transmission unit configured to transmit the first coded signal and the second coded signal,

wherein the two or more signals further comprise a third signal, wherein the apparatus further comprises a third multiplier configured to multiply the third signal to provide a third coded signal, and wherein the transmission unit is further configured to transmit the third coded signal.

13. (Original) The apparatus of claim 12, further comprising:

a second delay configured to delay the second coded signal to provide a timedelayed second coded signal;

a third delay configured to delay the third coded signal to provide a time-delayed third coded signal; and

wherein the transmission unit is configured to transmit the time-delayed second and third coded signals in lieu of the second and third coded signals, respectively.

- 14. (Original) The apparatus of claim 13, wherein the second delay is configured to delay the second coded signal for a second delay period, wherein the third delay is configured to delay the third coded signal for a third delay period, and wherein the second and third delay periods are different from each other.
 - 15. (Canceled)
 - (Canceled)
 - 17. (Canceled)

18. (Currently amended) The method of claim 17, further comprising A method for processing and transmitting a signal, the method comprising:

splitting an input signal into two or more signals comprising a first signal and a second signal:

interleaving the first signal to provide a first interleaved signal;

multiplying the first interleaved signal with a first code to provide a first coded signal:

multiplying the second signal with a second code to provide a second coded signal;

transmitting the first coded signal and the second coded signal; and

delaying the second coded signal to provide a time-delayed second coded signal, wherein the time-delayed second coded signal is transmitted in lieu of the second coded signal.

- 19. (Canceled)
- 20. (Canceled)
- (Canceled)
- 22. (Canceled)
- 23. (Canceled)
- (Canceled)
- 25. (Currently amended) The method of elaim 17, A method for processing and transmitting a signal, the method comprising:

splitting an input signal into two or more signals comprising a first signal and a second signal;

interleaving the first signal to provide a first interleaved signal;

multiplying the first interleaved signal with a first code to provide a first coded

signal;

multiplying the second signal with a second code to provide a second coded signal; and

transmitting the first coded signal and the second coded signal,

wherein the two or more signals further comprise a third signal, wherein the method further comprises:

multiplying the third signal to provide a third coded signal; and transmitting the third coded signal.

- (Original) The method of claim 25, wherein the first, second and third coded signals are transmitted through a single antenna.
- (Original) The method of claim 25, wherein the first, second and third coded signals are transmitted through different antennas.
 - (Currently amended) The method of claim 25, further comprising: delaying the second coded signal for a second delay period to provide a timedelayed second coded signal;

delaying the third coded signal for a third delay period to provide a time-delayed third coded signal; and

wherein the time-delayed second and third coded signals are transmitted in lieu of the second and third second-coded signals, respectively.

- (Original) The method of claim 28, wherein the second delay period and the third delay period are different from each other.
 - (Canceled)
 - (Canceled)